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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,755	12/29/2003	Mary S. Arnoff	190250-1430	6128
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AT&T Legal Department Attn: Patent Docketing One AT&T Way Room 2A-207 Bedminster, NJ 07921			EXAMINER  NASH, LASHANYA RENJEE	
			ART UNIT  2453	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/747,755

**Applicant(s)**

ARNOFF, MARY S.

**Examiner**

LASHANYA R. NASH

**Art Unit**

2453

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 September 2008.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 3-5 and 7-30 is/are pending in the application.  
4a) Of the above claim(s) 1-2 is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 3-5 and 7-30 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO/S5108)  
Paper No(s)/Mail Date 10/21/2008  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

This Office action is in response to the amendment filed 9 September 2008. Claims 1-2 have been withdrawn. Claim 6 is cancelled. Claims 3, 10, 14, 16, 22, 23, 24, 25, 26, 27, 28, 29 and 30 are currently amended. Claims 3-5 and 7-30 are presented for further consideration.

### ***Response to Arguments***

The rejections of claims 4, 5, 19, 20, 21, 25, 26, 28, 29 and 30 under 35 USC § 112, second paragraph remain rejected as set forth below in the Office action. Examiner notes that Applicant contends that the term "substantial" is widely accepted. However, the Examiner maintains that there is no standard for ascertaining the requisite degree of this terminology provided in the specification or the claim itself. Therefore, it is unclear the range that would properly constitute a conversion and receiving of a communication that is occurring "substantially synchronously". Conflicting interpretations of the claim language could result (i.e. conversion completed after receiving; receiving completed after conversion), thereby rendering the claims indefinite.

Applicant's arguments (i.e. Zafar fails to overcome the deficiencies of Segur for disclosing and ICW system), see Remarks, filed 9 September 2008, with respect to the rejections of claims under have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new grounds

of rejection is made in view of a newly found prior art reference Brusilovsky et al., as set forth below in the Office action.

### ***Claim Objections***

Claims 7, 8, and 9 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claims, or amend the claims to place the claims in proper dependent form, or rewrite the claims in independent form. These claims are recited to be dependent on cancelled claim 6.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4,5,19,20,21,25,26,28,29 and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "substantially" in the claims is a relative term which renders the claim indefinite. The term "substantially" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 3-5, 10-11, 14-15, and 18-30 rejected under 35 U.S.C. 102(a) as being unpatentable over Segur (US Patent 6,212,55) in view of Brusilovsky et al. ("A Proposal for Internet Call Waiting Service Using SIP"-retrieved from Internet), hereinafter referred to as Segur.**

In reference to claim 3, Segur discloses a system for converting messages between multiple communication interfaces. Segur discloses:

- A system for integrating standard communication modalities (column 1, lines 58-65; Figure 1), the system comprising:
- a system configured to communicate using a first standard communication protocol (plurality of communication interfaces; column 2, lines 27-47; Figure 2);
- a second communication system configured to communicate using a second standard communication protocol (plurality of communication interfaces; column 2, lines 27-47; Figure 2); and
- a messaging server (i.e. multi-format communications server; column 1, lines 65-67), communicatively coupled to the first communication system the messaging server further being communicatively coupled to the second

communication system (column 2, lines 45-55), the messaging server being configured to receive a first communication from the first communication system using the first standard communication protocol, the messaging server being further configured to convert the first communication into a second communication, the second communication being compatible with the second standard communication protocol (column 2, line 56-column 3, line 2), the messaging server being further configured to transmit the second communication to the second communication system using the second standard communication protocol (column 3, lines 55-65).

However, the reference fails to disclose that the system is an Internet call waiting (ICW) system configured to communicate using a first standard communication protocol. Nonetheless, this was a well known feature in the art at the time of the invention, as further evidenced by Brusilovsky. Therefore, it would have been obvious to accordingly modify the teachings of Segur for one of ordinary skill in the art at the time of the invention.

In an analogous art, Brusilovsky discloses a system for providing ICW services to dial-up internet users (abstract). Brusilovsky further discloses that Internet call waiting (ICW) system configured to communicate using a first standard communication protocol (i.e. ICW communicate via the SIP protocol over TCP/IP; 3. *Scope of the Proposed Project*, paragraph 2, page 2). One of ordinary skill in the art would have been motivated to accordingly modify the system of Segur so as to interconnect the IP and Switched

Telephone Networks providing ICW services, based on the open well-defined protocols (Brusilovsky; Abstract).

In reference to claim 24, Segur discloses a method for converting messages between multiple communication interfaces. Segur discloses:

- A method for integrating standard communication modalities (column 1, lines 58-65; column 3, lines 24-26), the method comprising the steps of:
- receiving a first communication from a system, the first communication being compatible with a first standard communication protocol (plurality of communication interfaces; column 1, lines 65-column 2, line 2; column 2, lines 27-47);
- converting the first communication into a second communication at a messaging server, the second communication being compatible with a second standard communication protocol (column 2, lines 24-26; column 2, line 56-column 3, line 2); and
- transmitting the second communication to a second communication system using the second standard communication protocol (column 2, lines 24-26; column 3, lines 55-65).

However, the reference fails to disclose that the system is an Internet call waiting (ICW) system, the first communication being compatible with a first standard communication protocol. Nonetheless, this was a well known feature in the art at the time of the invention, as further evidenced by Brusilovsky. Therefore, it would have been obvious to

accordingly modify the teachings of Segur for one of ordinary skill in the art at the time of the invention.

In an analogous art, Brusilovsky discloses a system for providing ICW services to dial-up internet users (abstract). Brusilovsky further discloses that Internet call waiting (ICW) system, the first communication being compatible with a first standard communication protocol (i.e. ICW communicate via the SIP protocol over TCP/IP; 3. *Scope of the Proposed Project*, paragraph 2, page 2). One of ordinary skill in the art would have been motivated to accordingly modify the system of Segur so as to interconnect the IP and Switched Telephone Networks providing ICW services, based on the open well-defined protocols (Brusilovsky; Abstract).

In reference to claim 4, Segur discloses wherein the conversion of the first communication into the second communication occurs substantially synchronously with the receiving of the first communication (column 2, lines 18-26).

In reference to claim 5, Segur discloses, wherein the transmission of the second communication occurs substantially synchronously with the converting of the first communication into the second communication (column 2, lines 24-26).

In reference to claim 7, Segur discloses the system wherein the second communication system is a legacy voicemail system (i.e. voice messages; column 2, lines 43-45).



In reference to claim 8, Segur discloses the system wherein the second communication system is an email system (column 2, lines 40-43).

In reference to claims 10, Brusilovsky discloses the system, wherein the Internet call waiting system includes a legacy voicemail system (i.e. GSTN, abstract).

In reference to claim 11, Segur discloses the system, wherein the second communication system is an email system (column 2, lines 40-43).

In reference to claim 13, Brusilovsky discloses the system wherein the second communication system is an Internet call waiting (ICW) system (i.e. ICW client and server; 3. *Scope of the Proposed Project*; paragraph 2, page 2).

In reference to claim 14, Segur discloses the system wherein the first communication system is an email system (column 2, lines 40-43).

In reference to claim 15, Segur discloses the system, wherein the second communication system is a legacy voicemail system (i.e. voice messages; column 2, lines 43-45).

In reference to claim 16, Brusilovsky discloses where the Internet call waiting system includes an instant messaging (IM) system (2. *Service description*, page 2)

In reference to claim 17, Segur discloses the system, wherein the second communication system is a legacy voicemail system (i.e. voice messages; column 2, lines 43-45).

In reference to claim 18, Segur discloses the system, further comprising a third communication system configured to communicate using a third standard communication protocol, wherein the messaging server is further communicatively coupled to the third communication system (plurality of communication interfaces; column 2, lines 27-47; Figure 2), the messaging server being further configured to convert the first communication into a third communication, the third communication being compatible with the third standard communication protocol (column 2, line 56-column 3, line 2), the messaging server being further configured to transmit the third communication to the third communication system using the third standard communication protocol (column 2, lines 24-26; column 3, lines 55-65).

In reference to claim 19, Segur discloses the system, wherein the transmission of the second communication is substantially synchronous with the transmission of the third communication (i.e. multiple converted messages are transmitted; column 3, lines 55-65).

In reference to claim 20, Segur discloses the system of claim 18, wherein the conversion of the first communication into the third communication occurs substantially synchronously with the receiving of the first communication (column 2, lines 18-26).

In reference to claim 21, Segur discloses the system, wherein the transmission of the third communication occurs substantially synchronously with the converting of the first communication into the third communication (column 3, lines 55-65).

In reference to claim 22, Segur discloses the system: wherein the first communication system is different from the second communication system; wherein the second communication system is different from the third communication system; wherein the third communication system is different from the first communication system (plurality of communication interfaces; column 2, lines 27-47; Figure 2-items 52,54,56,58,60,62,64) ; and wherein the first communication system, the second communication system, and the third communication system are each selected from the group consisting of: a public switched telephone network (PSTN) telephone system (column 2, lines 43-46); a cellular telephone system (column 2, lines 36-38); an email system (column 2, lines 40-43); an instant messaging (IM) system; an Internet call waiting (ICW) system; and an legacy voicemail system (i.e. voice messages; column 2, lines 43-45).

In reference to claim 23, Segur discloses the system, the first communication system being selected from the group consisting of: a public switched telephone network (PSTN) telephone system (column 2, lines 43-46); a cellular telephone system (column 2, lines 36-38); an Internet call waiting (ICW) system; and the second communication system being different from the first communication system, the second communication system being selected from the group consisting of: a public switched telephone network (PSTN) telephone system (column 2, lines 36-38); a cellular telephone system (column 2, lines 36-38); an email system (column 2, lines 40-43); an instant messaging (IM) system; an Internet call waiting (ICW) system; and an legacy voicemail system (i.e. voice messages; column 2, lines 43-45); and the third communication system being different from the second communication system, the third communication system further being different from the second communication system (plurality of communication interfaces; column 2, lines 27-47; Figure 2), the third communication system being selected from the group consisting of: a public switched telephone network (PSTN) telephone system (column 2, lines 43-46); a cellular telephone system (column 2, lines 36-38); an email system (column 2, lines 40-43); an instant messaging (IM) system; an Internet call waiting (ICW) system; and an legacy voicemail system (i.e. voice messages; column 2, lines 43-45).

In reference to claim 25, Segur discloses the method of claim 24, wherein the step of receiving the first communication and the step of converting the first communication into the second communication occur substantially synchronously

(column 2, lines 18-26).

In reference to claim 26, Segur discloses the method, wherein the step of converting the first communication into the second communication and the step of transmitting the second communication occur substantially synchronously (column 2, lines 24-26).

In reference to claim 27, Segur discloses the method, further comprising the steps of: converting the first communication into a third communication, the third communication being compatible with a third standard communication protocol (column 2, line 56-column 3, line 2); and transmitting the third communication to a third communication system using the third standard communication protocol (column 3, lines 55-65).

In reference to claim 28, Segur discloses the method, wherein the step of transmitting the second communication and the step of transmitting the third communication occur substantially synchronously (i.e. multiple converted messages are transmitted; column 3, lines 55-65).

In reference to claim 29, Segur discloses the method, wherein the step of receiving the first communication and the step of converting the first communication into the third communication occur substantially synchronously (column 2, lines 18-26).

In reference to claim 30, Segur discloses the method, wherein the step of converting the first communication into the third communication and the step of transmitting the third communication occur substantially synchronously (column 2, lines 55-65).

**Claims 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brusilovsky and Segur as applied above to claims 3 and 24, and further in view of Zafar et al. (US Patent 7,142,646), hereinafter referred to as Zafar.**

In reference to claims 9 and 12, although Segur and Brusilovsky disclose multiple communication interfaces, the reference fails to disclose the system wherein the second communication system is an instant messaging (IM) system. Nonetheless, this was a well known feature in the art at the time of the invention, as further evidenced by Zafar.

In an analogous art, Zafar discloses a unified messaging system wherein a communication system is an instant messaging (IM) system (column 2, lines 7-22). One of ordinary skill in the art at the time of the invention would have been so motivated to include the IM system, as taught by Zafar, to the multiple communication interfaces of the system as taught by Segur, so as provide further unified messaging between data processing (Internet) and telephony (i.e. voicemail) systems (Zafar; column 1, lines 60-65).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LASHANYA R. NASH whose telephone number is (571)272-3957. The examiner can normally be reached on 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LaShanya R Nash/  
Examiner, Art Unit 2453  
December 1, 2008

**/ARIO ETIENNE/  
Supervisory Patent Examiner, Art Unit 2457**